

Title (en)  
SEAL STRUCTURE FOR CIRCULAR TUBE BODY

Title (de)  
DICHTUNGSSTRUKTUR FÜR KREISFÖRMIGEN ROHRKÖRPER

Title (fr)  
STRUCTURE DE JOINT POUR CORPS TUBULAIRE CIRCULAIRE

Publication  
**EP 2436956 B1 20151028 (EN)**

Application  
**EP 09845208 A 20090527**

Priority  
JP 2009059716 W 20090527

Abstract (en)  
[origin: US2012001420A1] A sealing structure for a cylindrical body has an O-ring holder in which a planar O-ring that provides a seal in the planar direction and a radial O-ring that provides a seal in the axial line direction of the cylindrical body are incorporated in the crossing direction provided at both end parts of the cylindrical body; a pressing means for pressing the O-ring holder in the axial line direction of the cylindrical body via a pressing lid; the O-ring holder is pressed against a tube sheet of the fluid chamber via the pressing lid by the pressing means to press the planar O-ring onto the tube sheet, whereby a fluid tight seal is provided between the fluid chamber and the outside; and the radial O-ring is pressed onto the outer periphery of the cylindrical body to provide a fluid tight seal between the fluid passage and the fluid chamber.

IPC 8 full level  
**F16J 15/06** (2006.01); **F16J 15/02** (2006.01); **F16L 5/02** (2006.01); **F16L 5/08** (2006.01)

CPC (source: EP US)  
**B01D 63/062** (2013.01 - EP US); **B01D 65/003** (2013.01 - EP US); **F16J 15/028** (2013.01 - EP US); **F16J 15/062** (2013.01 - EP US); **B01D 71/02** (2013.01 - EP); **B01D 2313/04** (2013.01 - EP); **B01D 2313/041** (2022.08 - US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2012001420 A1 20120105; US 9103443 B2 20150811**; CA 2757211 A1 20101202; CA 2757211 C 20141209; EP 2436956 A1 20120404; EP 2436956 A4 20140416; EP 2436956 B1 20151028; JP 5250106 B2 20130731; JP WO2010137141 A1 20121112; WO 2010137141 A1 20101202

DOCDB simple family (application)  
**US 200913255215 A 20090527**; CA 2757211 A 20090527; EP 09845208 A 20090527; JP 2009059716 W 20090527; JP 2011515797 A 20090527